

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN040419\
 Data File : VN054954.D
 Acq On : 4 Apr 2019 18:11
 Operator : JC/SP
 Sample : K2245-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1S

Quant Time: Apr 05 03:19:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	514890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	866797	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	735923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	271027	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	341124	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
35) Dibromofluoromethane	7.59	113	275727	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	10.09	98	1027143	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
62) 4-Bromofluorobenzene	12.40	95	317966	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

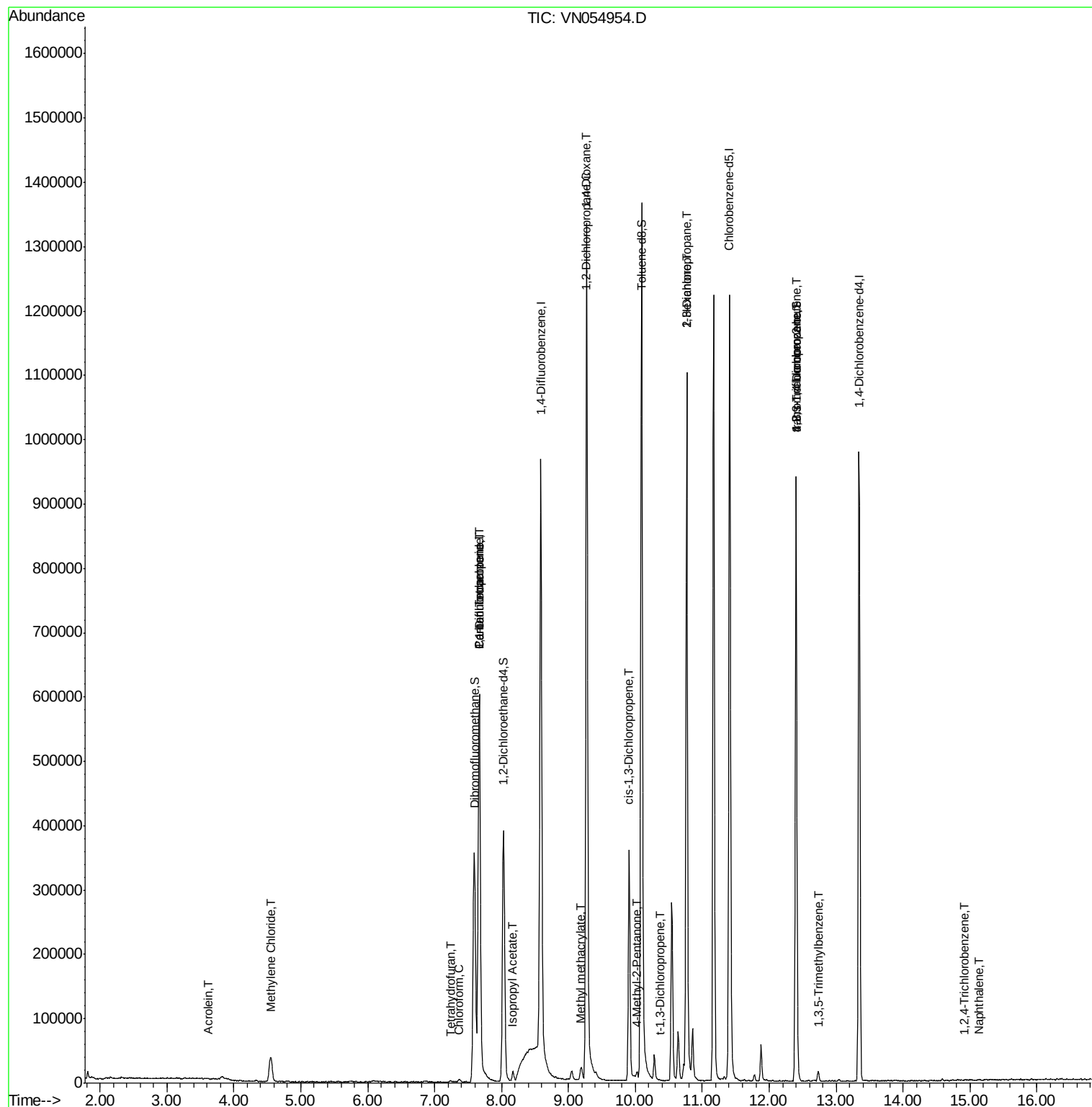
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	155	4.449	ug/l #	13
16) Acetone	3.82	43	7045	Below Cal		96
18) Methyl Acetate	4.34	43	3625	Below Cal	#	65
20) Methylene Chloride	4.55	84	26268	4.169	ug/l	91
29) Tetrahydrofuran	7.23	42	967	0.579	ug/l #	67
30) Chloroform	7.37	83	4095	0.383	ug/l	97
31) Cyclohexane	7.67	56	11476	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	39619	4.613	ug/l #	48
38) Carbon Tetrachloride	7.66	117	48845	5.889	ug/l #	17
43) Isopropyl Acetate	8.17	43	17522	1.764	ug/l	97
45) 1,2-Dichloropropane	9.27	63	1701	0.247	ug/l #	44
48) Methyl methacrylate	9.18	41	7237	1.439	ug/l #	17
49) 1,4-Dioxane	9.26	88	59	1.162	ug/l #	19
51) 4-Methyl-2-Pentanone	10.03	43	11423	2.061	ug/l #	39
53) t-1,3-Dichloropropene	10.36	75	98	2.038	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	61130	6.622	ug/l #	66
57) 1,3-Dichloropropane	10.76	76	11327	1.228	ug/l #	42
59) 2-Hexanone	10.77	43	181056	52.309	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.42	83	94	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	163659	38.373	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7280	0.387	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	163659	139.484	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	348	2.523	ug/l #	68
95) Naphthalene	15.13	128	1251	2.983	ug/l #	86

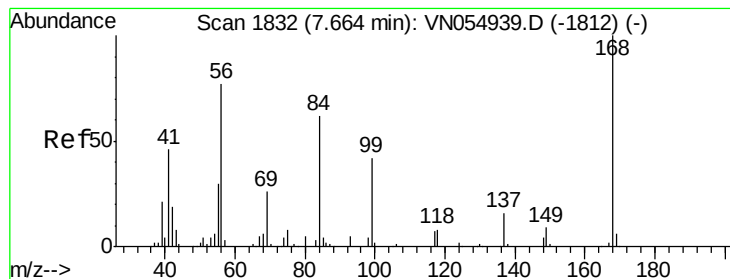
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 05 02:23:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

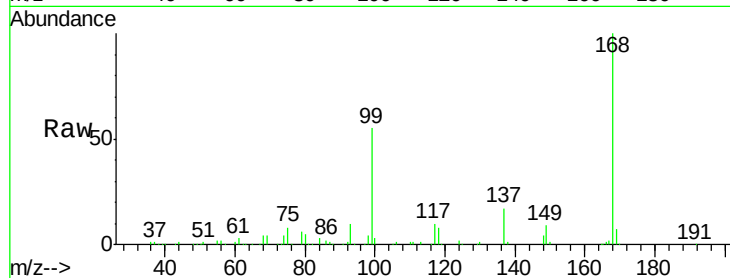
TP-1S

Tgt Ion:168 Resp: 514890

Ion Ratio Lower Upper

168 100

99 54.9 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): VN054939.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN054939.D (-1812) (-)

7.67

200000

150000

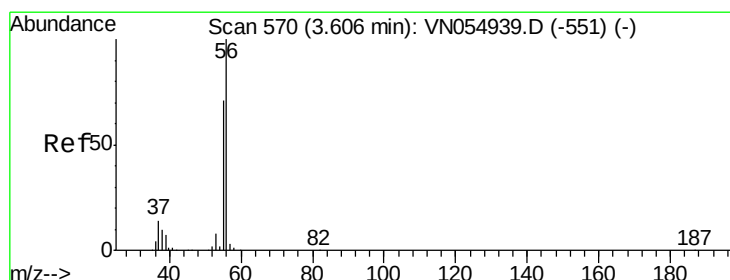
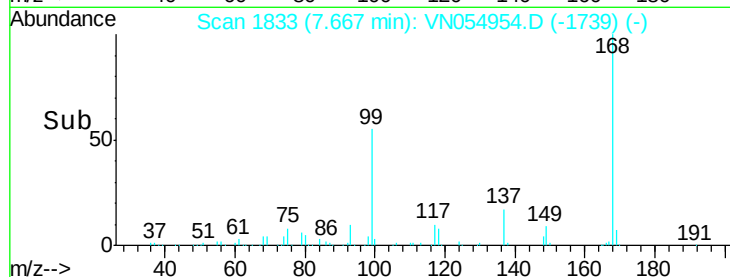
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 4.449 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054954.D

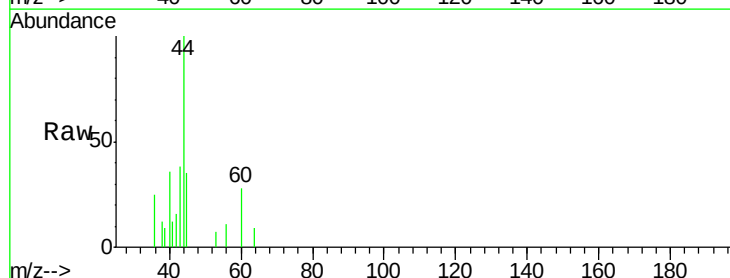
Acq: 4 Apr 2019 18:11

Tgt Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 0.0 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VN054939.D (-551) (-)

Ion 55.00 (54.70 to 55.70): VN054939.D (-551) (-)

3.62

250

200

150

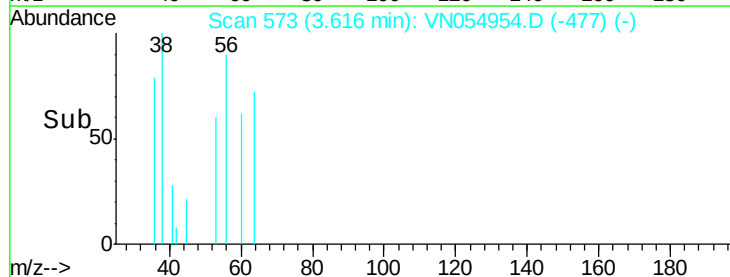
100

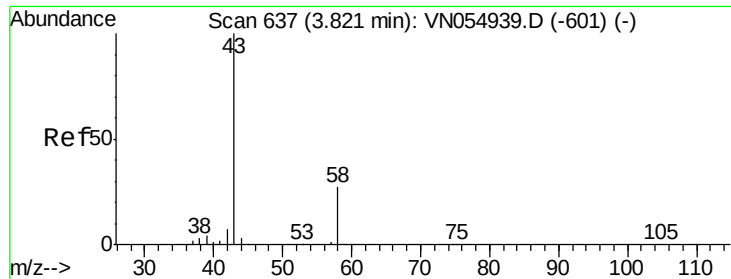
50

0

3.60 3.61 3.62

Time-->

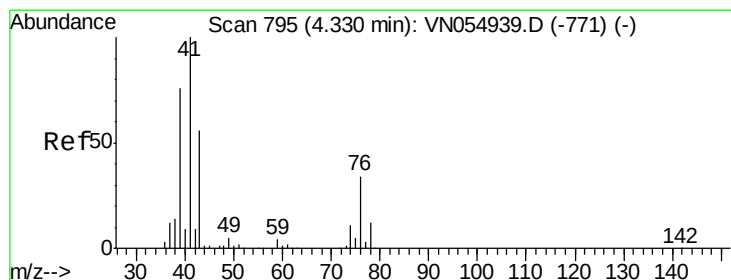
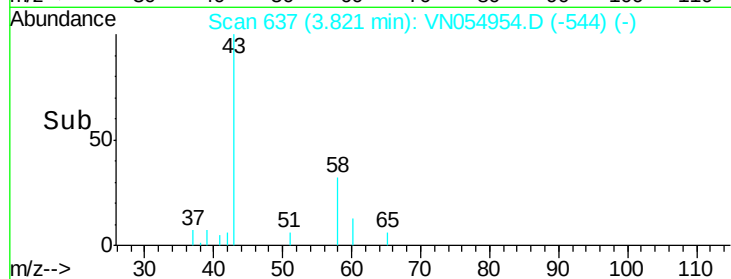
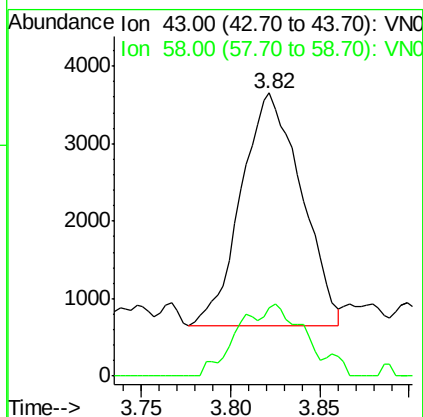
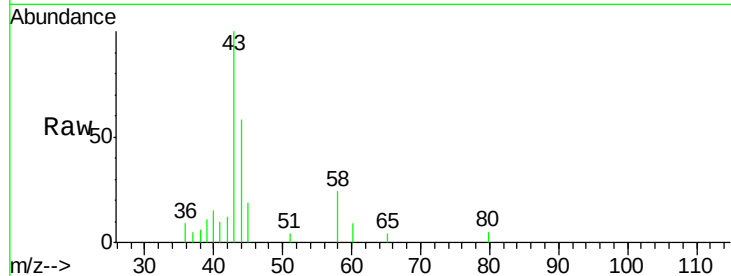




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

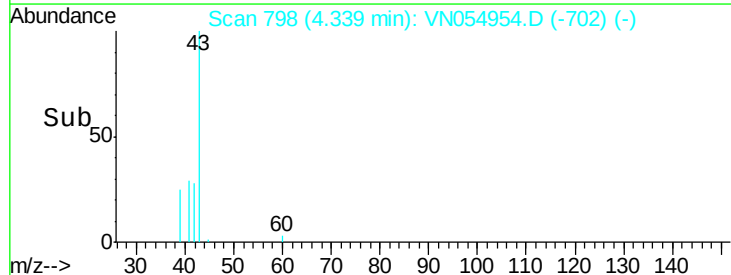
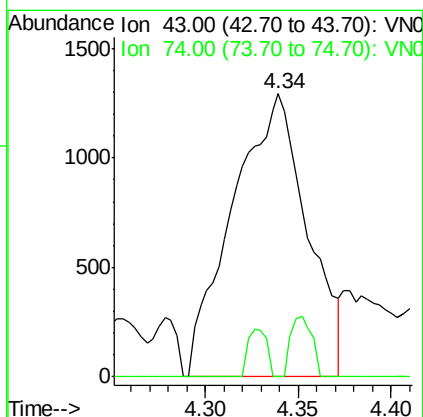
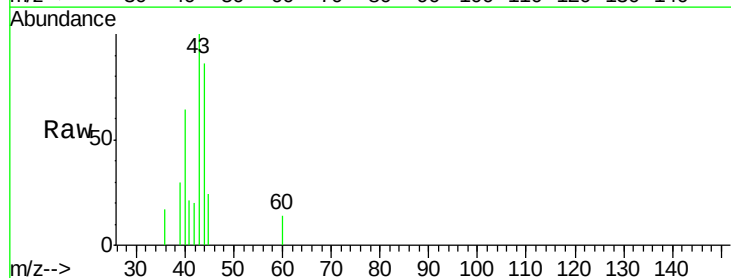
Instrument :
MSVOA_N
ClientSampleId :
TP-1S

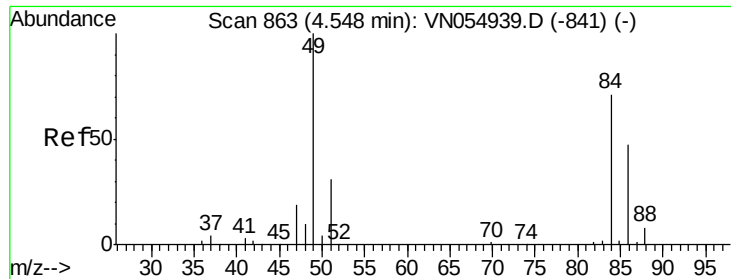
Tgt Ion: 43 Resp: 7045
Ion Ratio Lower Upper
43 100
58 29.4 21.7 32.5



#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion: 43 Resp: 3625
Ion Ratio Lower Upper
43 100
74 4.2 16.4 24.6#

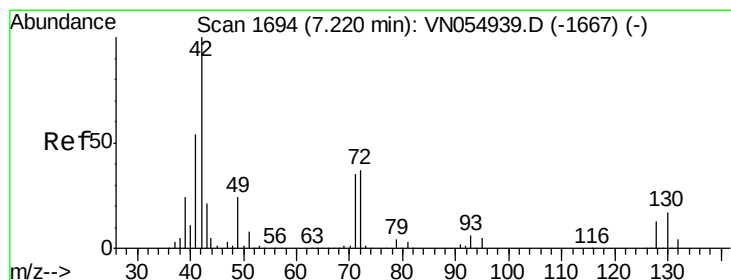
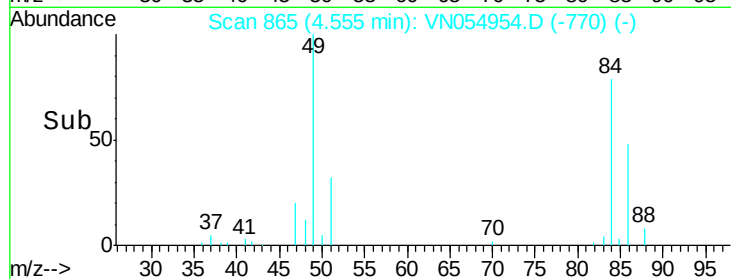
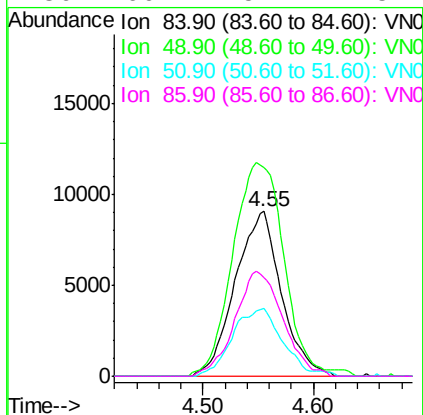
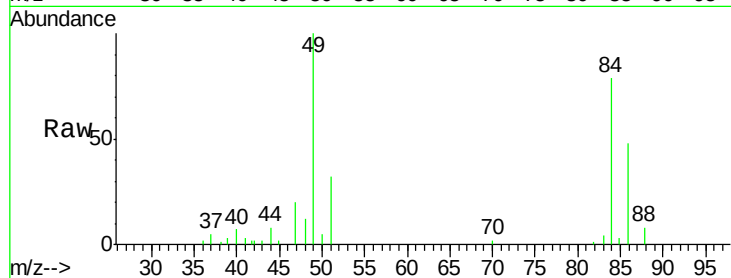




#20
Methylene Chloride
Concen: 4.169 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

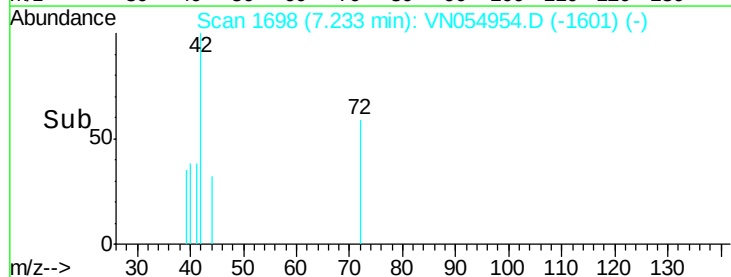
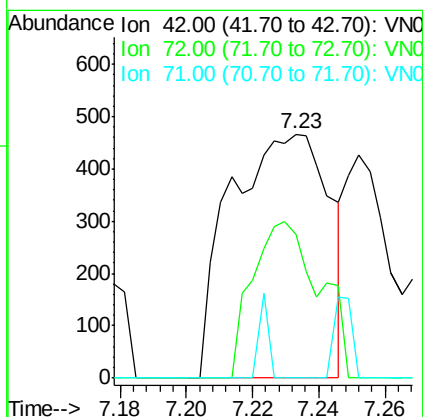
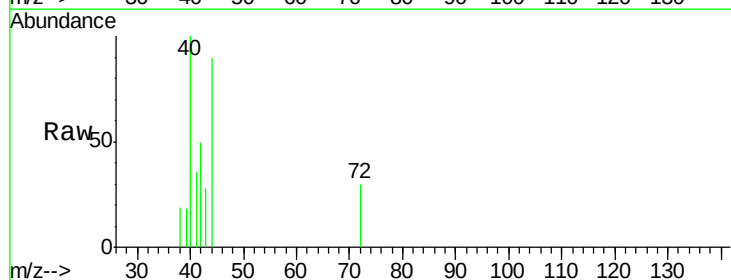
Instrument :
MSVOA_N
ClientSampled :
TP-1S

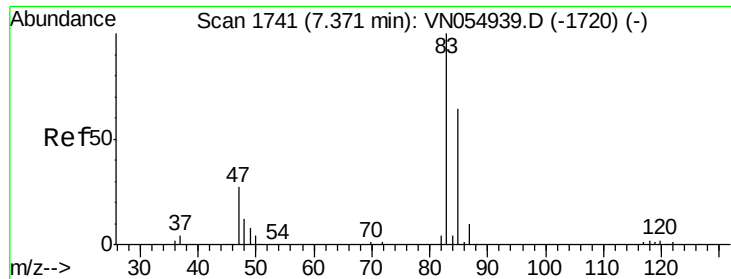
Tgt Ion: 84 Resp: 26268
Ion Ratio Lower Upper
84 100
49 126.3 112.1 168.1
51 40.8 34.5 51.7
86 60.2 52.2 78.4



#29
Tetrahydrofuran
Concen: 0.579 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion: 42 Resp: 967
Ion Ratio Lower Upper
42 100
72 43.5 29.3 43.9
71 3.2 27.8 41.6#

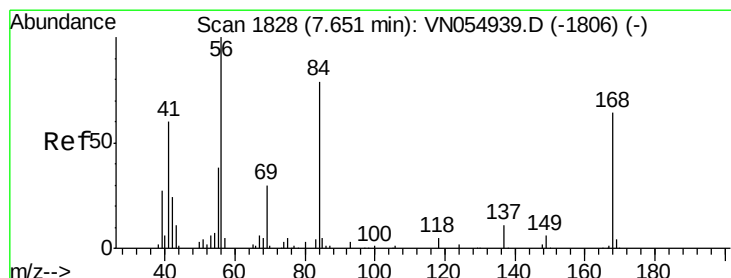
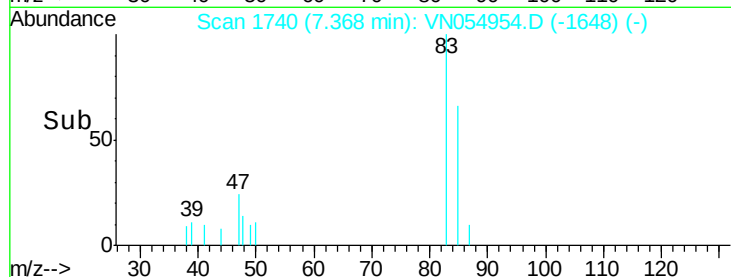
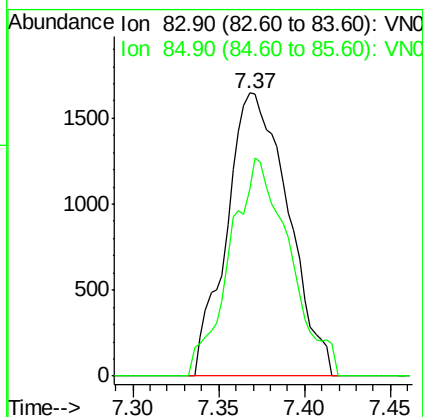
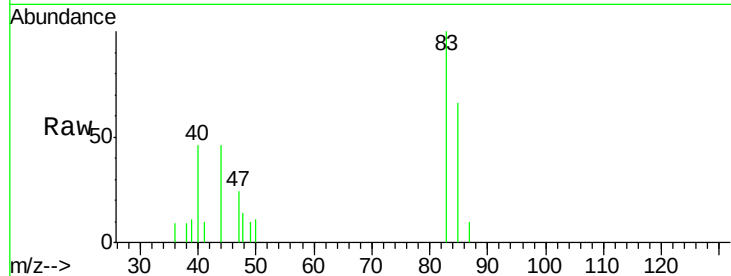




#30
Chloroform
Concen: 0.383 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

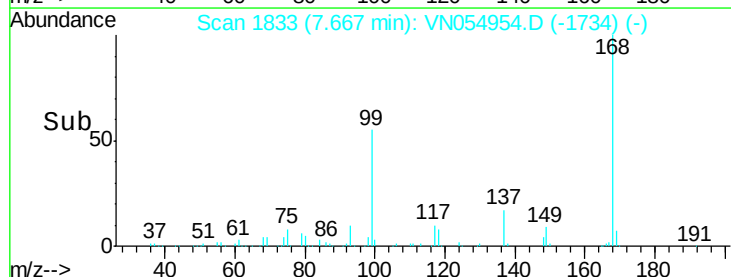
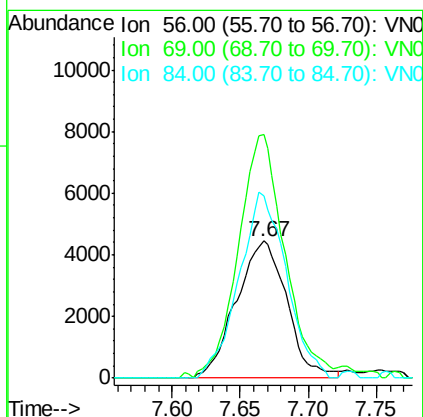
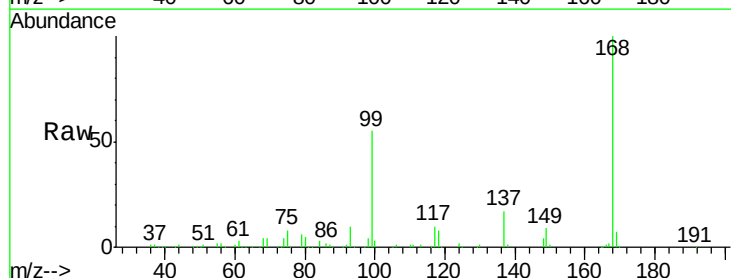
Instrument :
MSVOA_N
ClientSampleId :
TP-1S

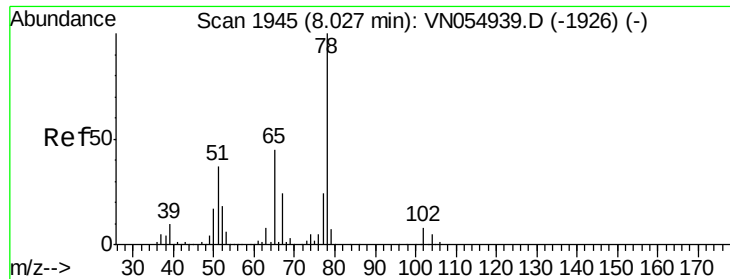
Tgt Ion: 83 Resp: 4095
Ion Ratio Lower Upper
83 100
85 66.2 51.4 77.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion: 56 Resp: 11476
Ion Ratio Lower Upper
56 100
69 174.6 23.8 35.6#
84 133.2 61.8 92.8#

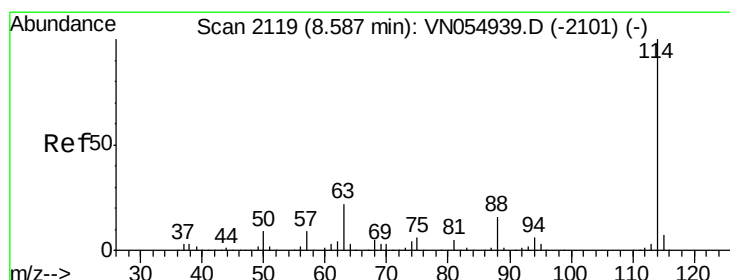
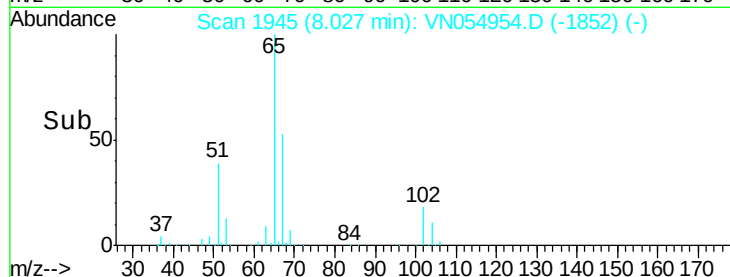
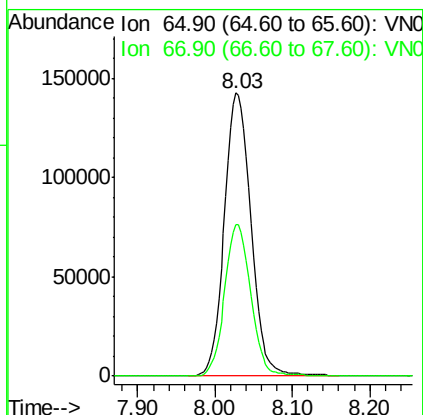
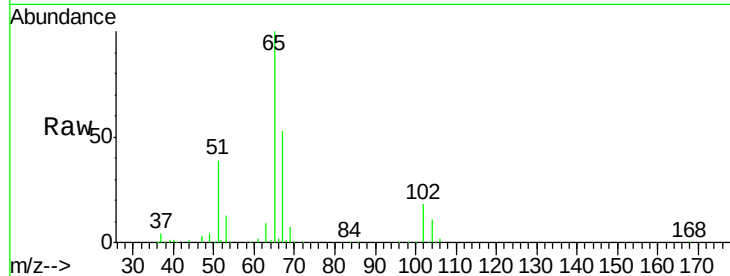




#33
 1,2-Dichloroethane-d4
 Concen: 50.249 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

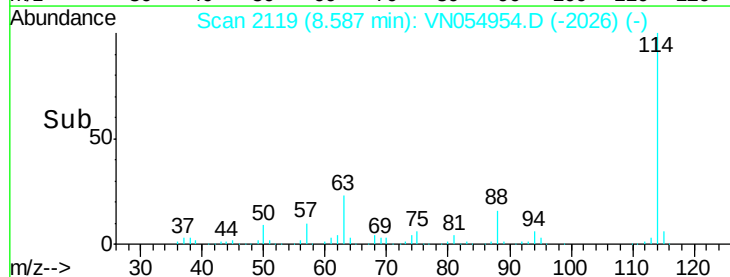
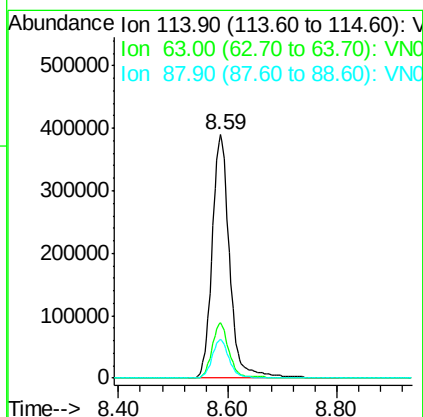
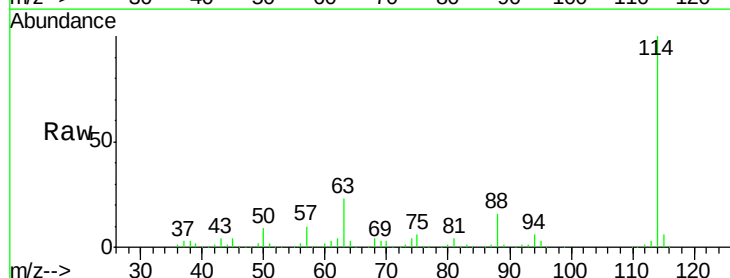
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1S

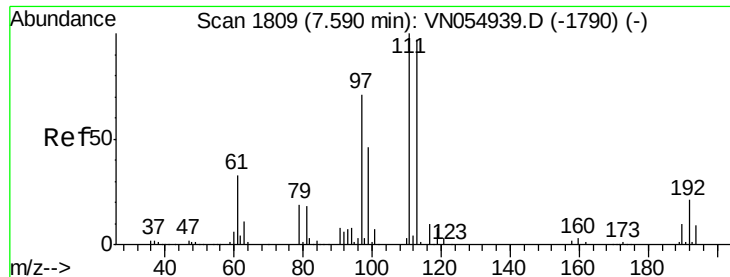
Tgt Ion: 65 Resp: 341124
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

Tgt Ion: 114 Resp: 866797
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.6
 88 16.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.866 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

TP-1S

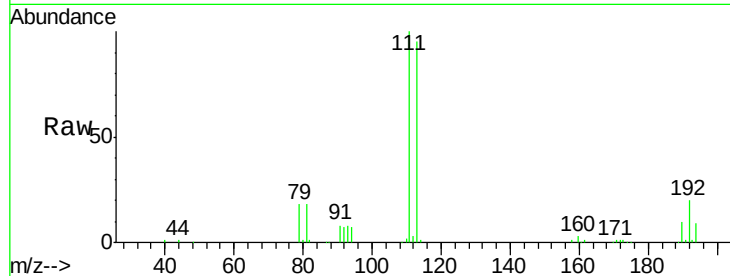
Tgt Ion:113 Resp: 275727

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.4

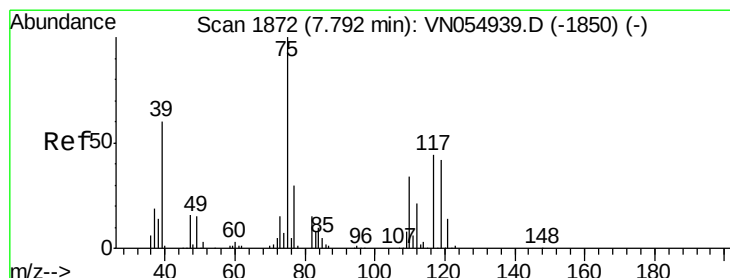
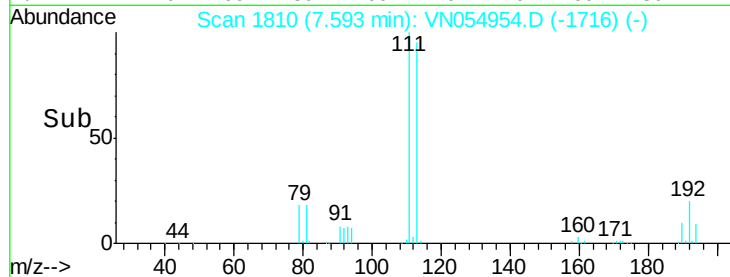
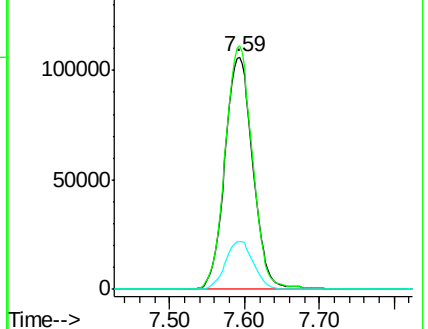
192 20.7 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.613 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

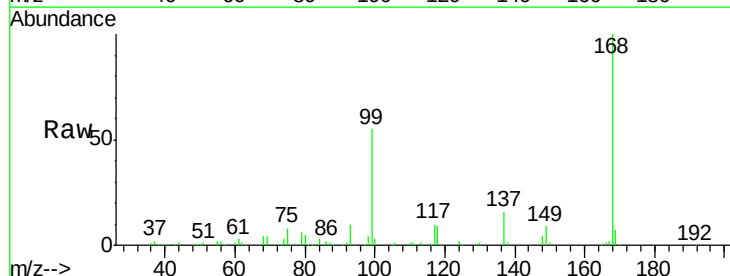
Tgt Ion: 75 Resp: 39619

Ion Ratio Lower Upper

75 100

110 7.2 17.0 50.9#

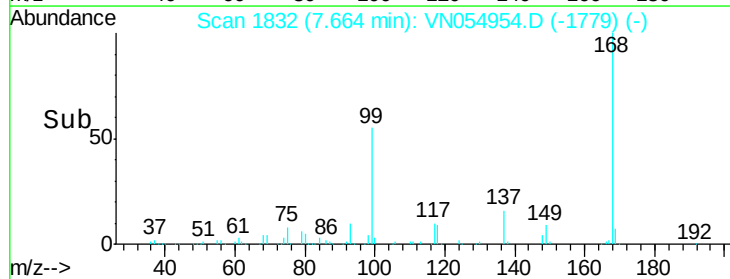
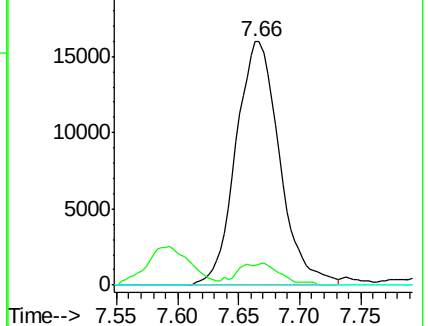
77 0.0 25.3 37.9#

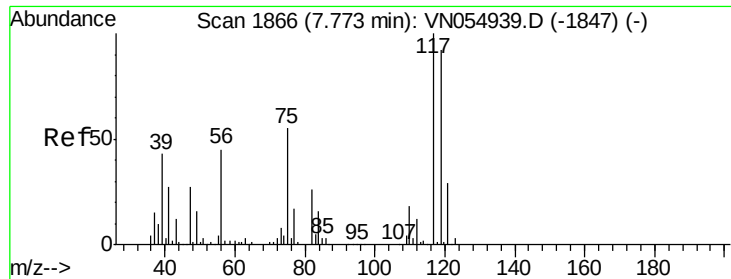


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.889 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

TP-1S

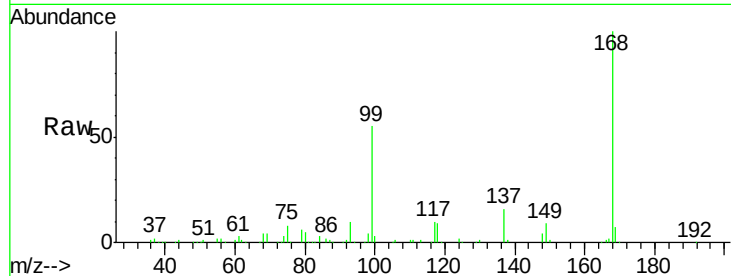
Tgt Ion:117 Resp: 48845

Ion Ratio Lower Upper

117 100

119 3.9 73.6 110.4#

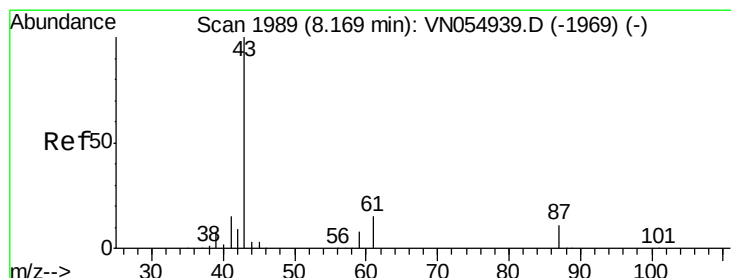
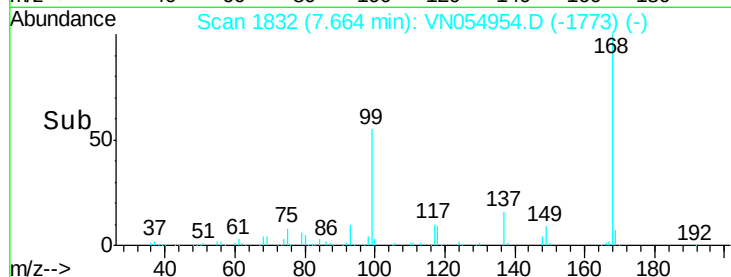
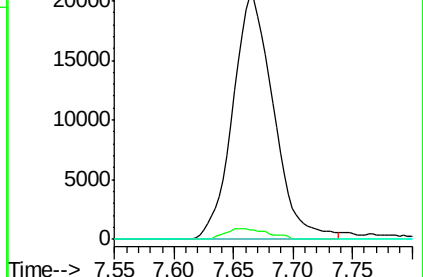
121 0.0 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.764 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

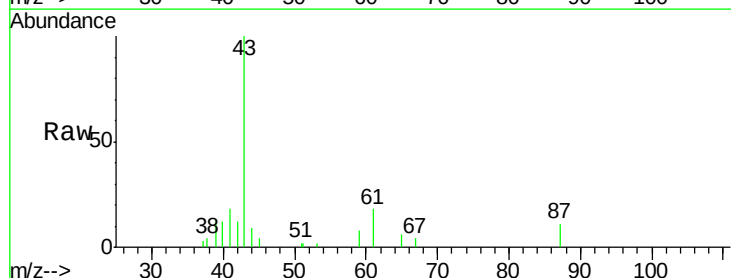
Tgt Ion: 43 Resp: 17522

Ion Ratio Lower Upper

43 100

61 19.9 14.4 21.6

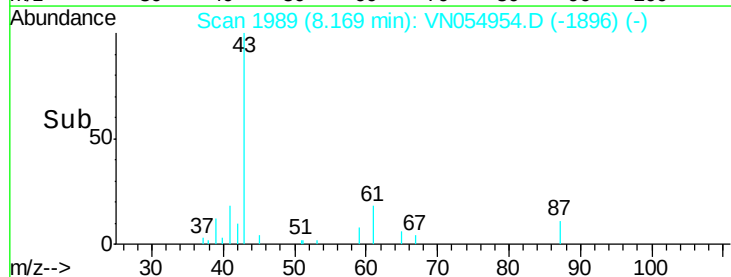
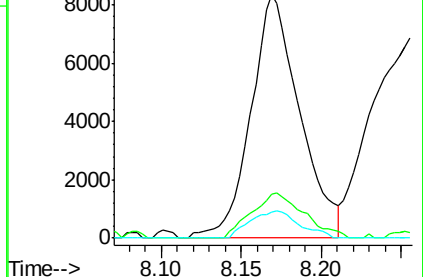
87 11.3 9.0 13.4

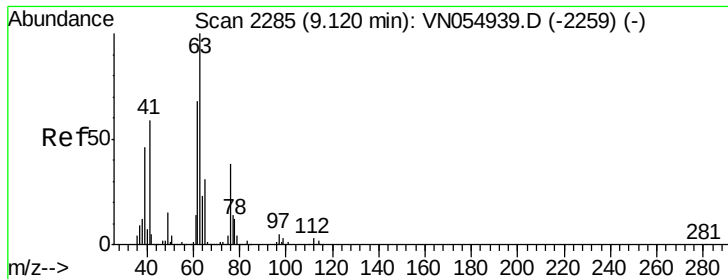


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

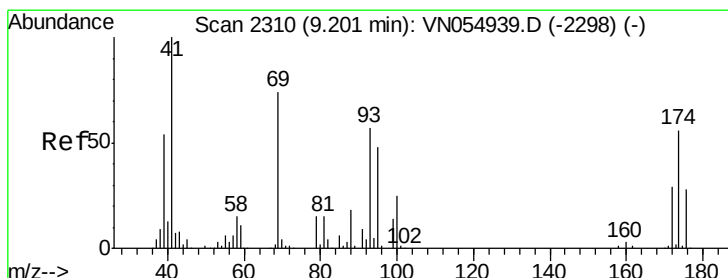
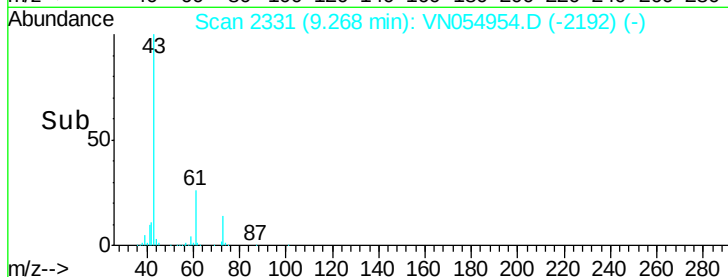
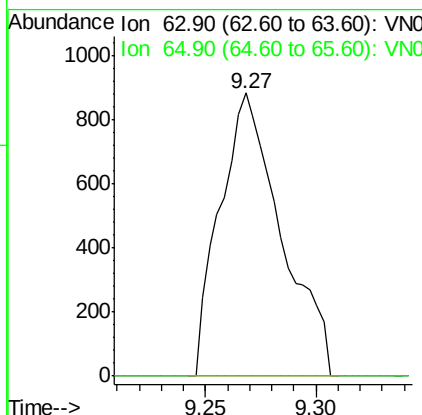
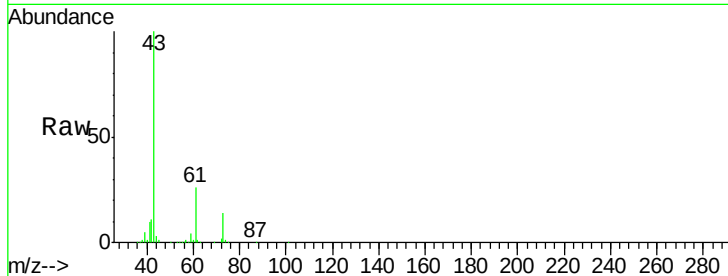




#45
 1,2-Dichloropropane
 Concen: 0.247 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

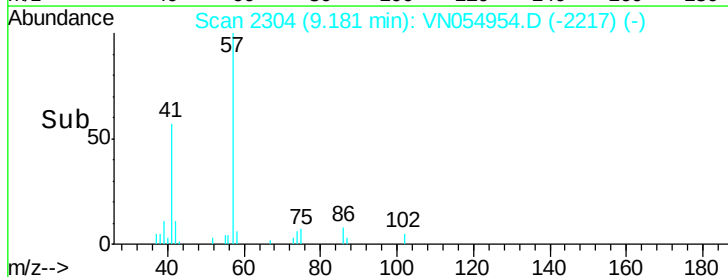
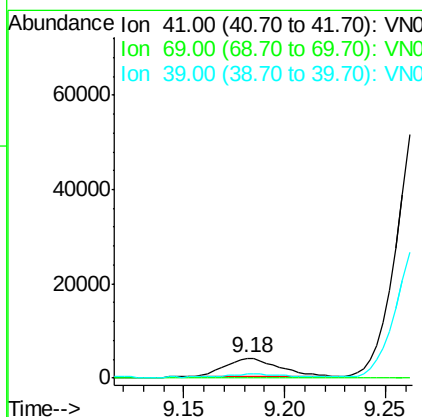
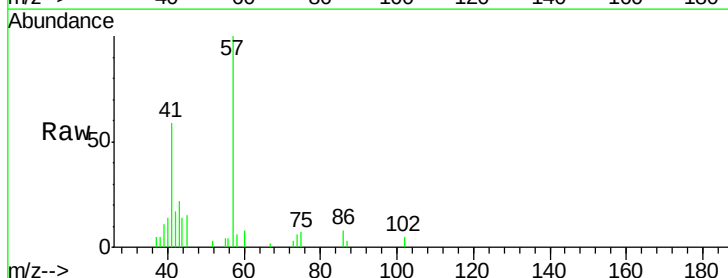
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1S

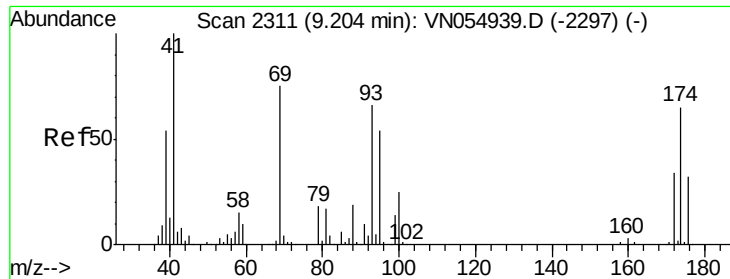
Tgt Ion: 63 Resp: 1701
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 1.439 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

Tgt Ion: 41 Resp: 7237
 Ion Ratio Lower Upper
 41 100
 69 0.0 58.9 88.3#
 39 0.0 44.2 66.4#

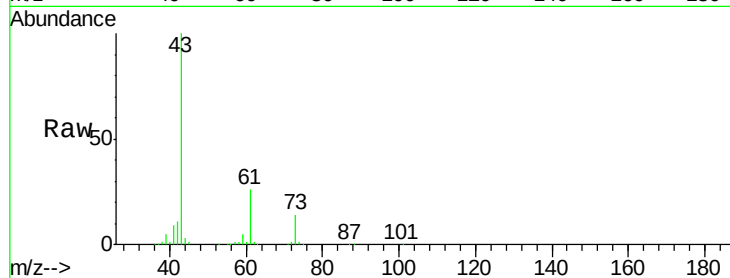




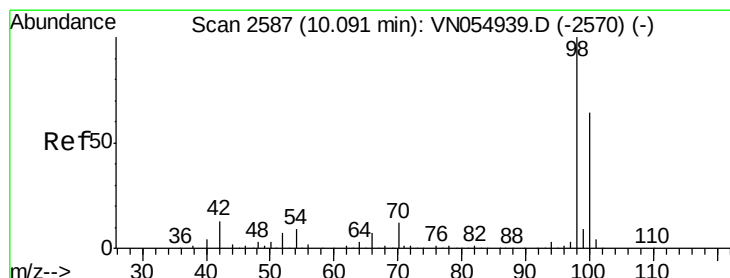
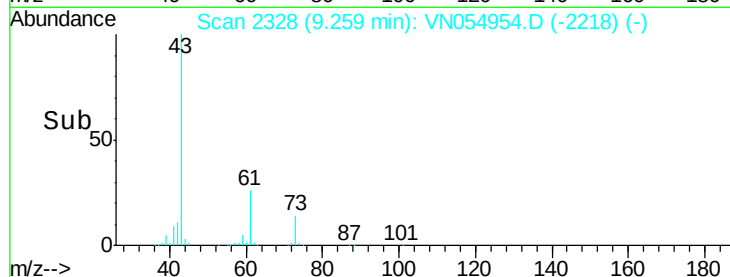
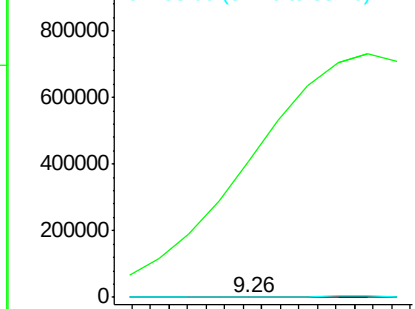
#49
1,4-Dioxane
Concen: 1.162 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.05 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Instrument :
MSVOA_N
ClientSampleId :
TP-1S

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 31.5 47.3#
58 0.0 61.9 92.9#

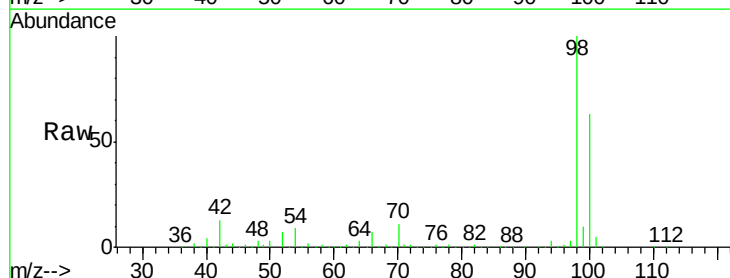


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

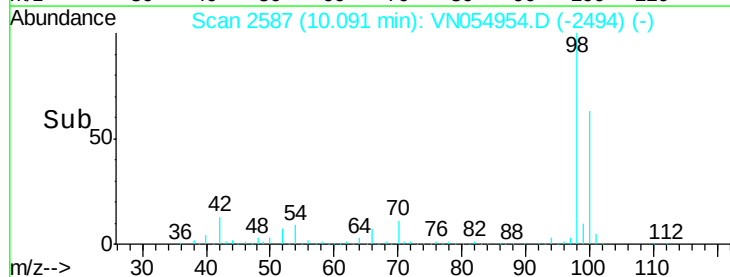
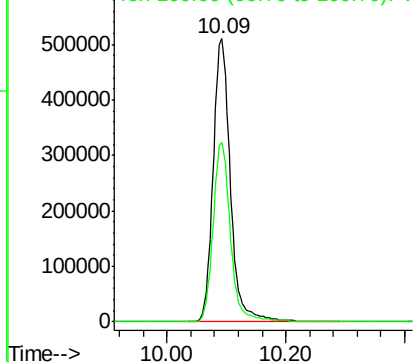


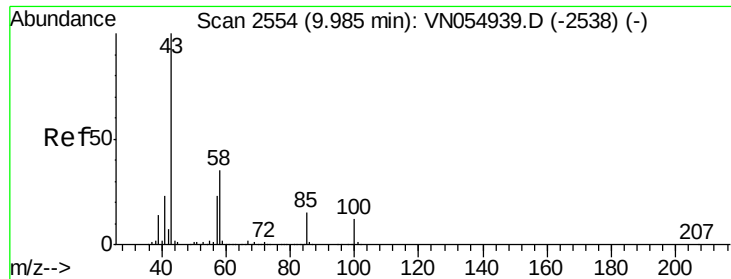
#50
Toluene-d8
Concen: 47.975 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion: 98 Resp: 1027143
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.061 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

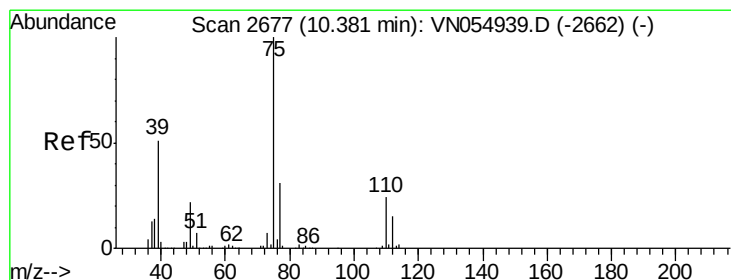
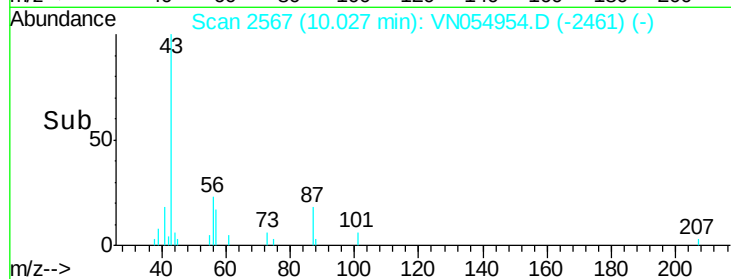
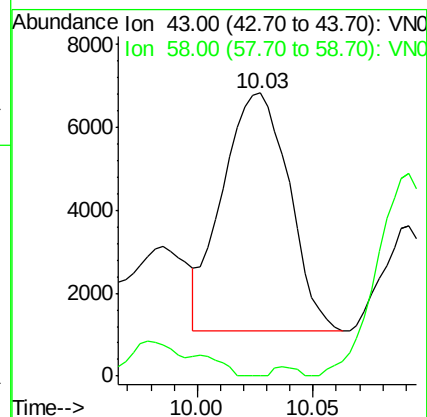
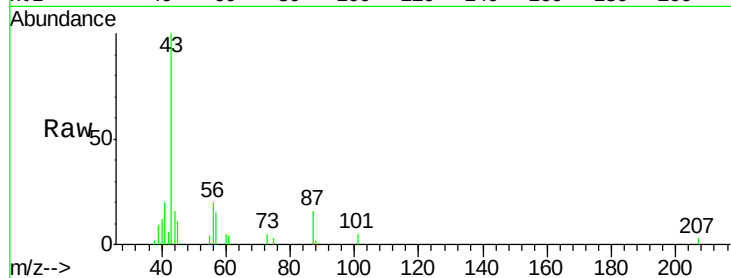
TP-1S

Tgt Ion: 43 Resp: 11423

Ion Ratio Lower Upper

43 100

58 0.0 28.3 42.5#



#53

t-1,3-Dichloropropene

Concen: 2.038 ug/l

RT: 10.36 min Scan# 2671

Delta R.T. -0.02 min

Lab File: VN054954.D

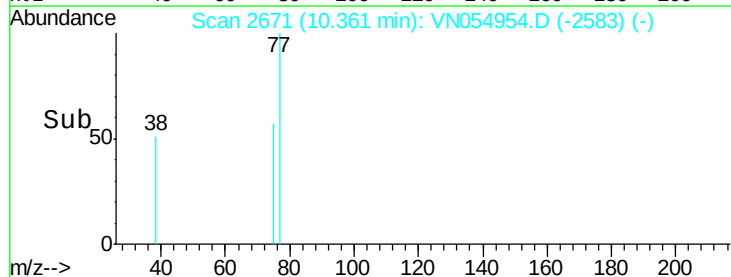
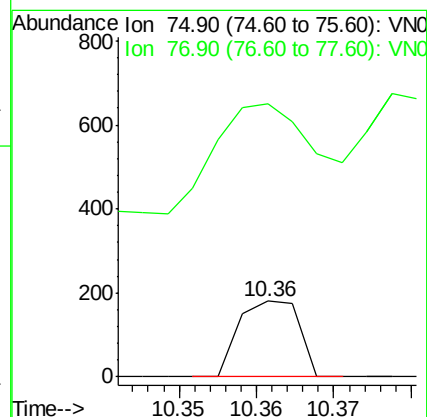
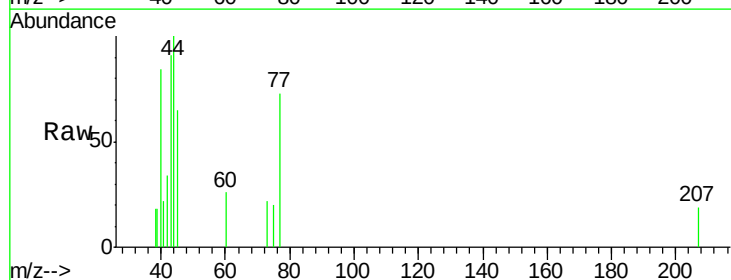
Acq: 4 Apr 2019 18:11

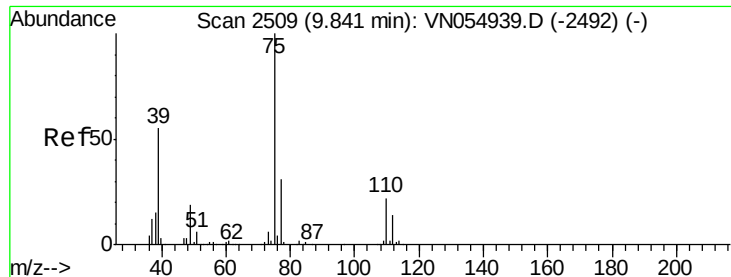
Tgt Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

77 111.6 24.6 36.8#





#54

cis-1,3-Dichloropropene

Concen: 6.622 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

TP-1S

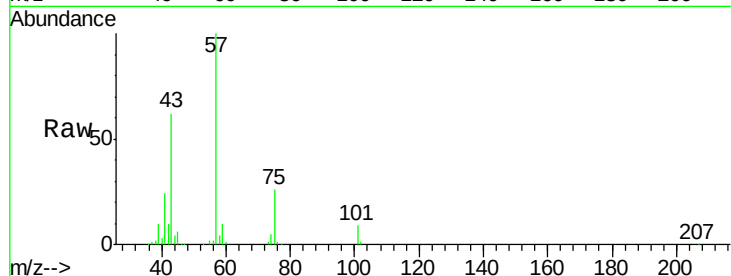
Tgt Ion: 75 Resp: 61130

Ion Ratio Lower Upper

75 100

77 0.9 25.0 37.4#

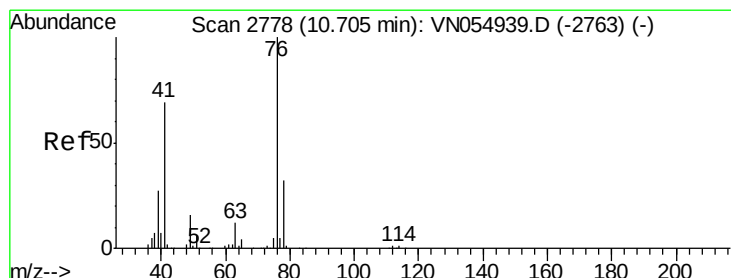
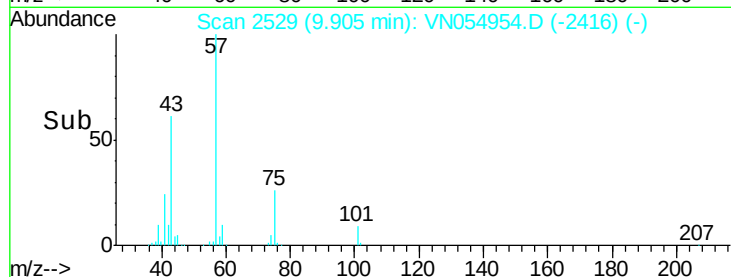
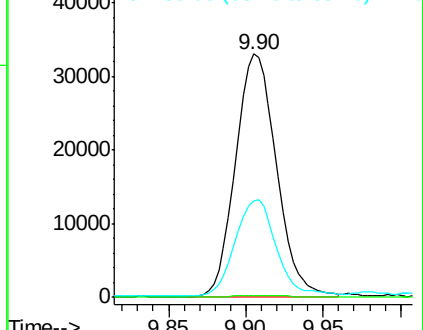
39 39.0 43.9 65.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.228 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054954.D

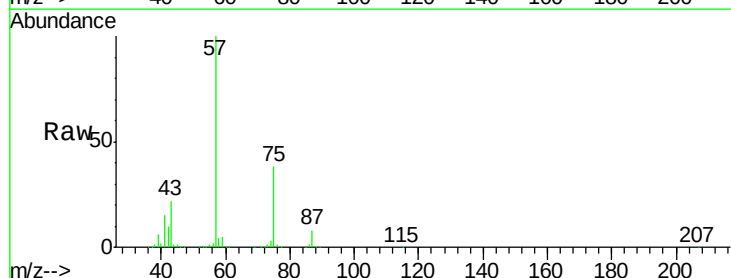
Acq: 4 Apr 2019 18:11

Tgt Ion: 76 Resp: 11327

Ion Ratio Lower Upper

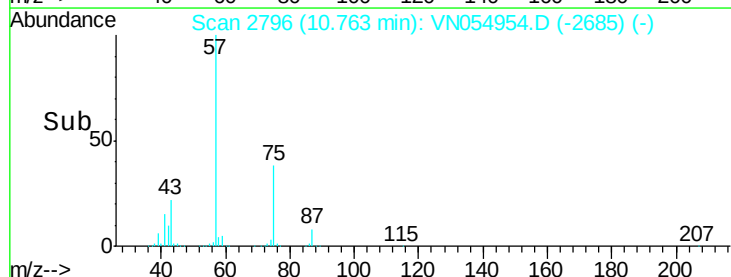
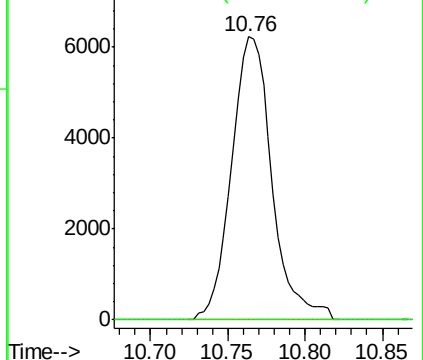
76 100

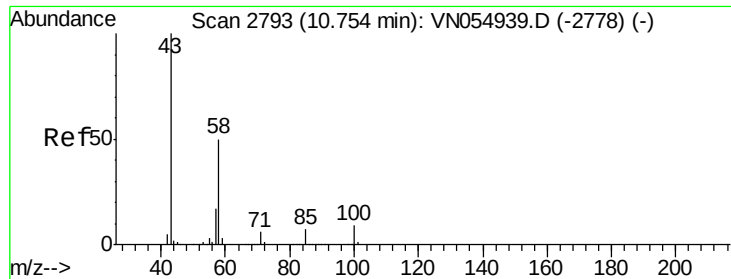
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

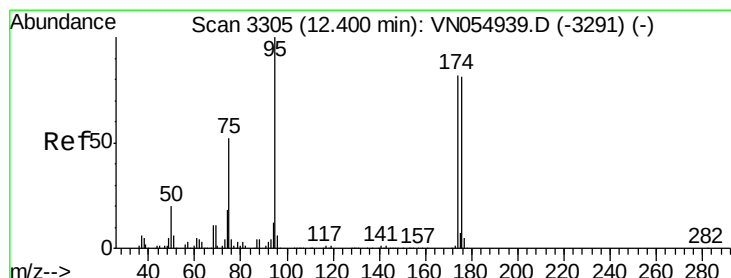
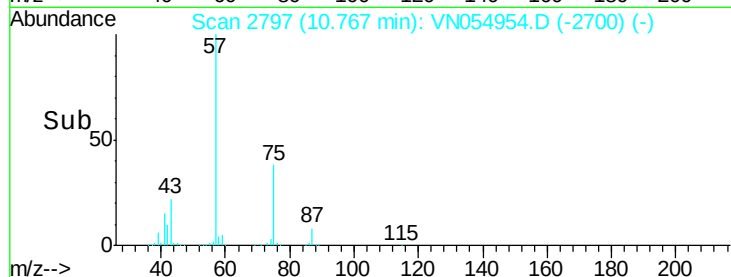
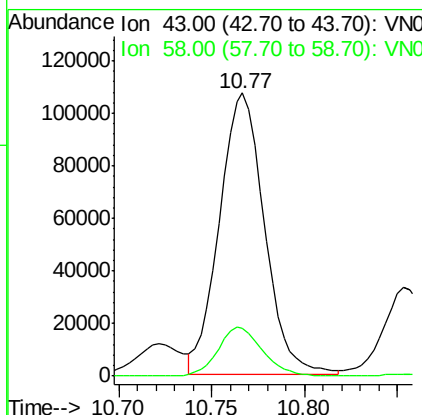
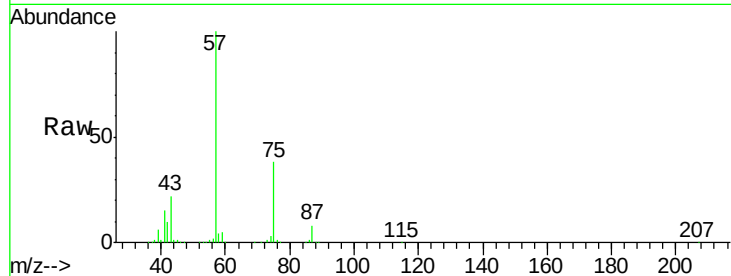




#59
2-Hexanone
Concen: 52.309 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

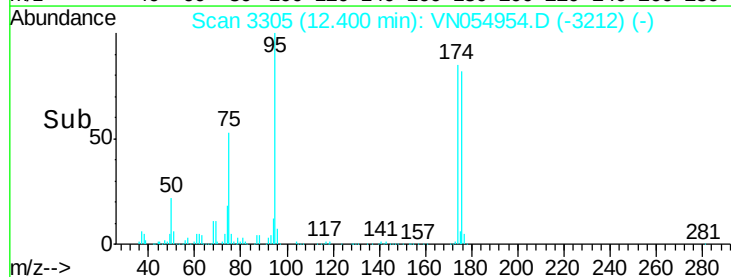
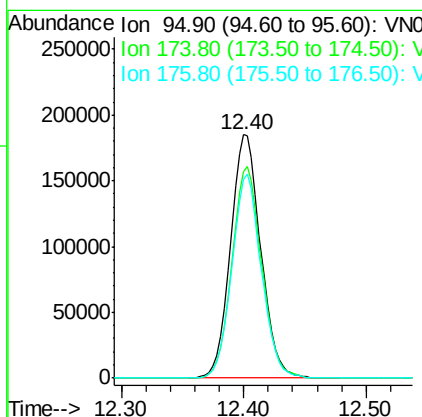
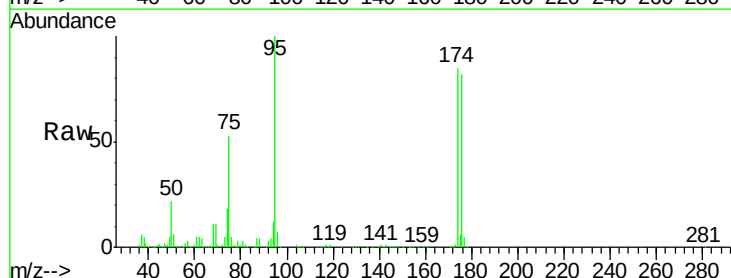
Instrument :
MSVOA_N
ClientSampled :
TP-1S

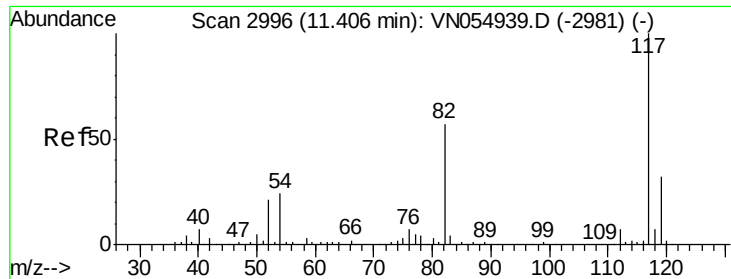
Tgt Ion: 43 Resp: 181056
Ion Ratio Lower Upper
43 100
58 17.4 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 44.502 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion: 95 Resp: 317966
Ion Ratio Lower Upper
95 100
174 85.8 0.0 166.2
176 81.8 0.0 163.2

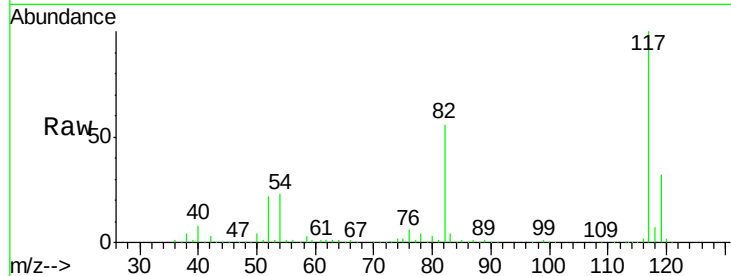




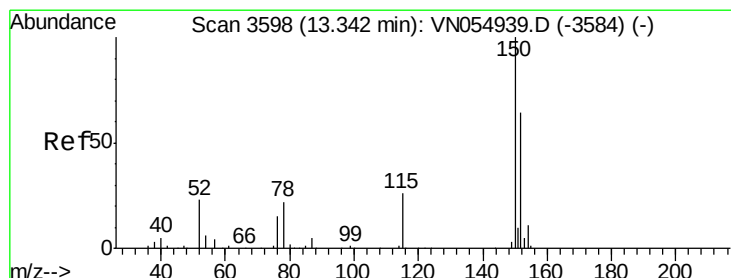
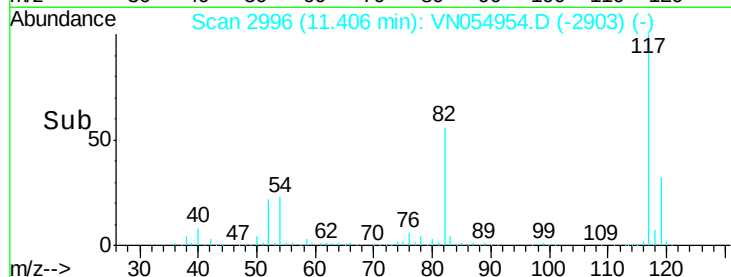
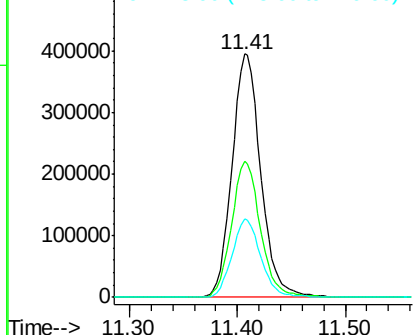
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Instrument :
MSVOA_N
ClientSampled :
TP-1S

Tgt Ion:117 Resp: 735923
Ion Ratio Lower Upper
117 100
82 55.8 45.3 67.9
119 32.1 25.8 38.6

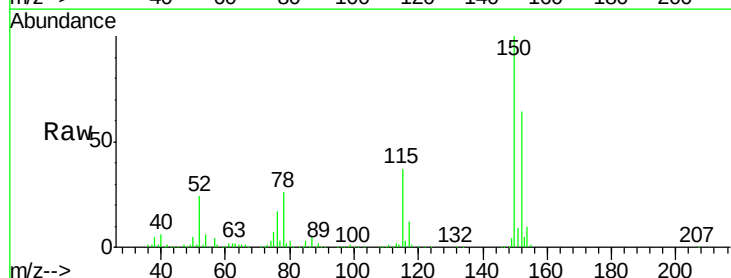


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

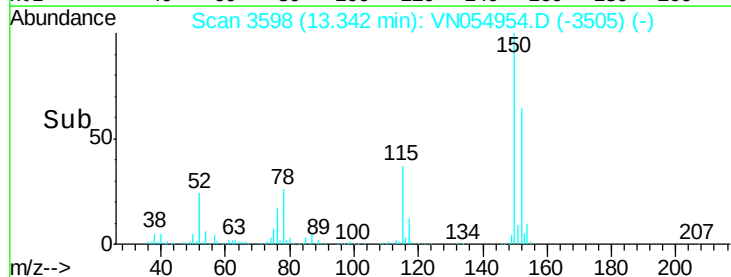
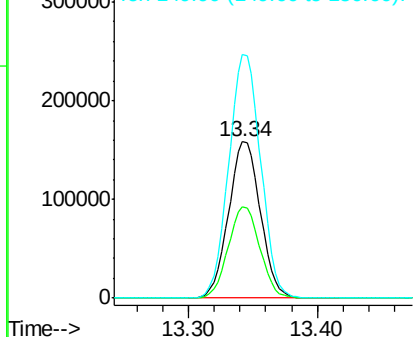


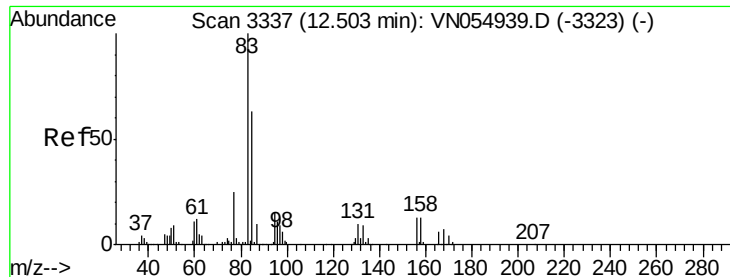
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054954.D
Acq: 4 Apr 2019 18:11

Tgt Ion:152 Resp: 271027
Ion Ratio Lower Upper
152 100
115 58.0 28.9 86.8
150 156.2 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3310

Delta R.T. -0.09 min

Lab File: VN054954.D

Acq: 4 Apr 2019 18:11

Instrument :

MSVOA_N

ClientSampled :

TP-1S

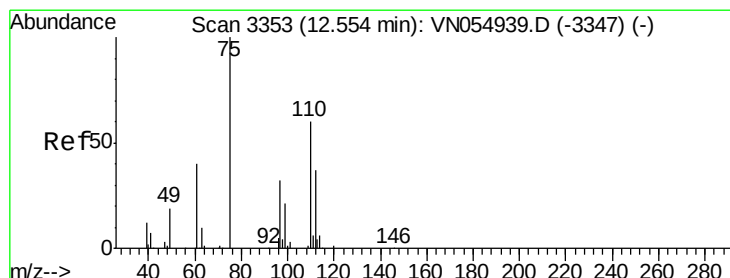
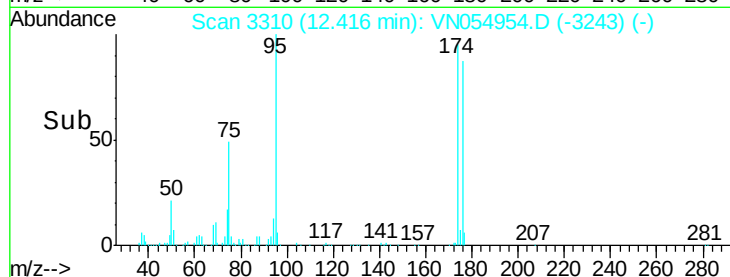
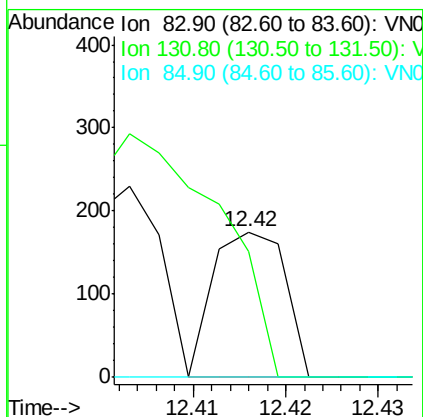
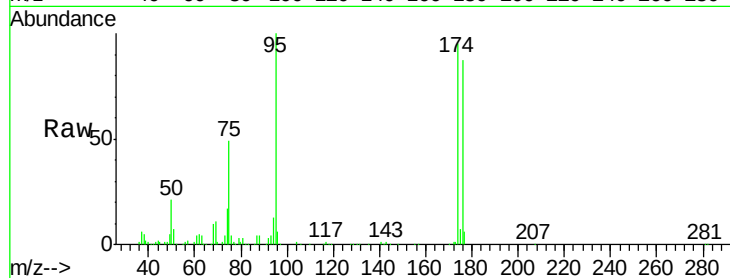
Tgt Ion: 83 Resp: 94

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.4 94.0#



#76

1,2,3-Trichloropropane

Concen: 38.373 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054954.D

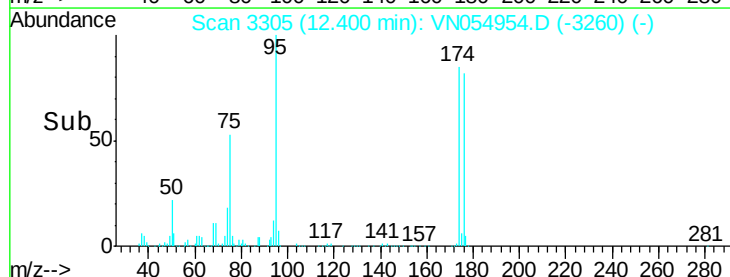
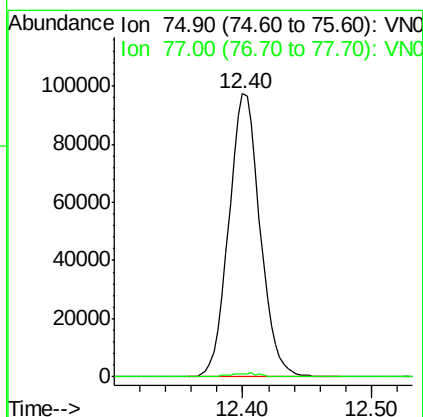
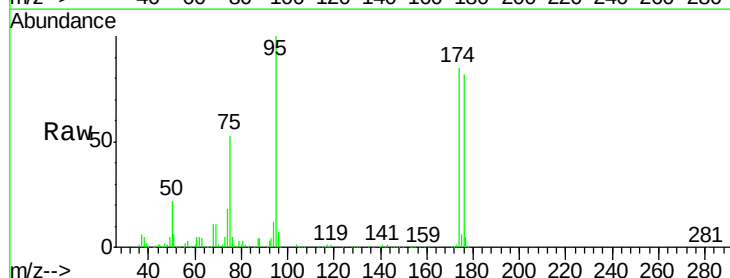
Acq: 4 Apr 2019 18:11

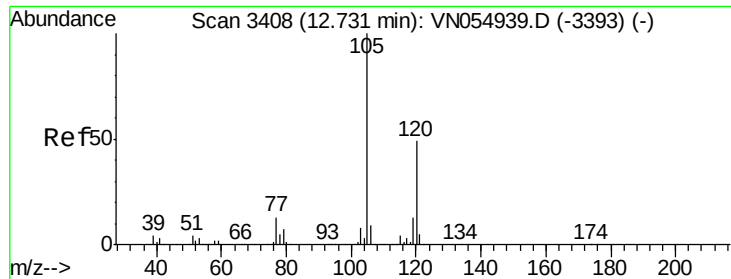
Tgt Ion: 75 Resp: 163659

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

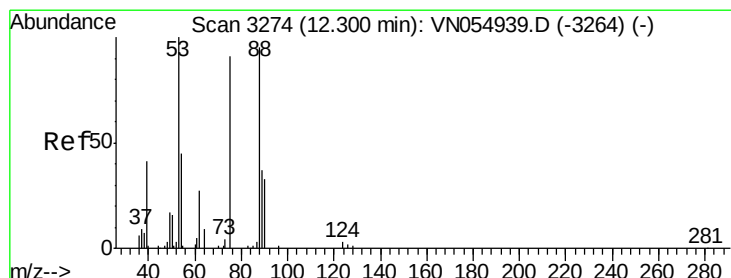
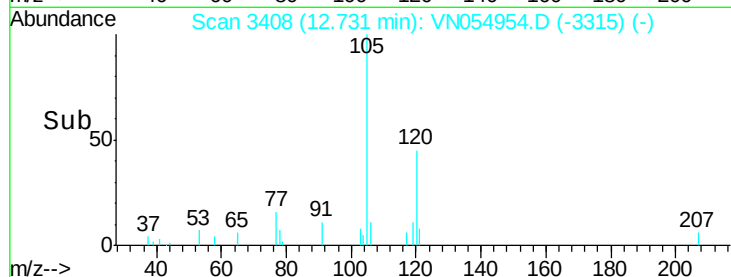
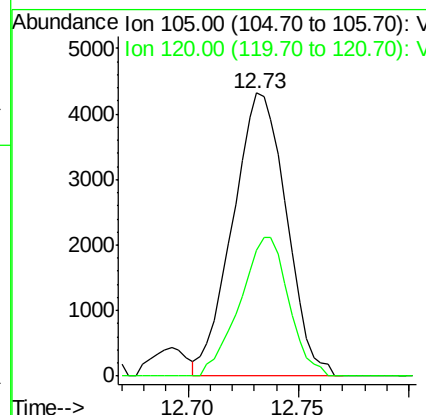
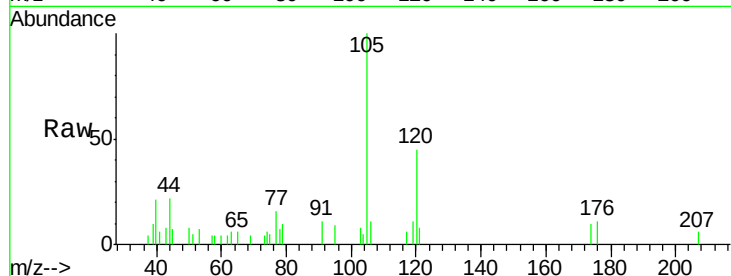




#80
 1,3,5-Trimethylbenzene
 Concen: 0.387 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

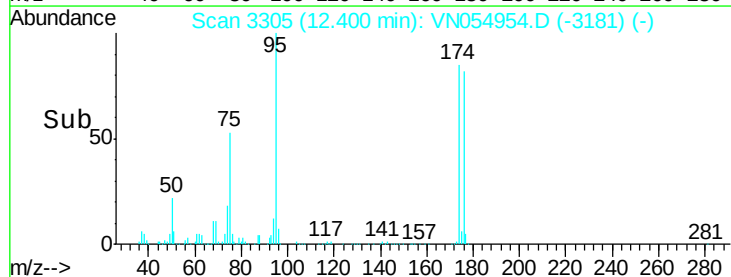
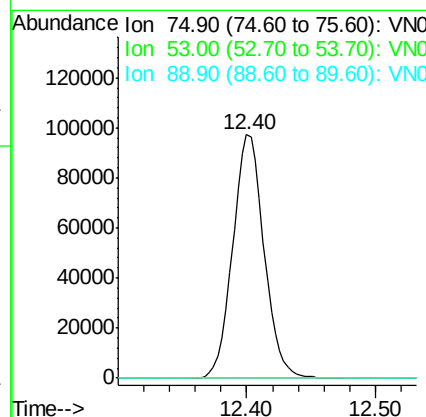
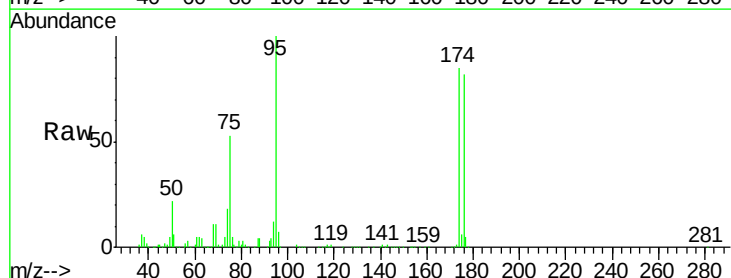
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1S

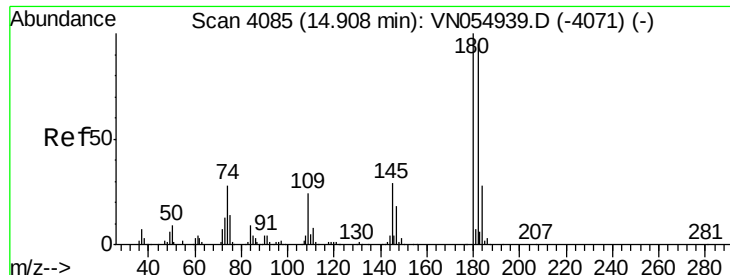
Tgt Ion: 105 Resp: 7280
 Ion Ratio Lower Upper
 105 100
 120 44.7 24.1 72.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.484 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

Tgt Ion: 75 Resp: 163659
 Ion Ratio Lower Upper
 75 100
 53 0.1 92.8 139.2#
 89 0.0 36.7 55.1#

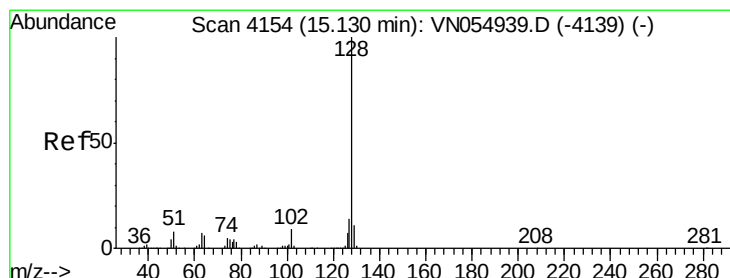
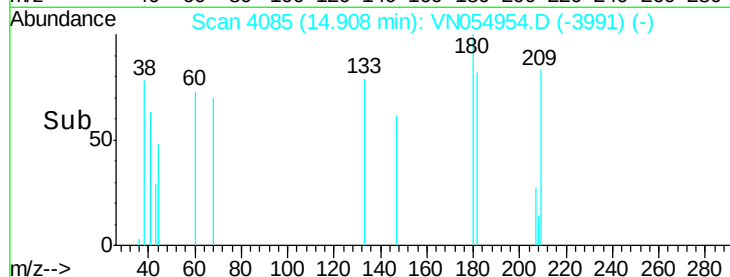
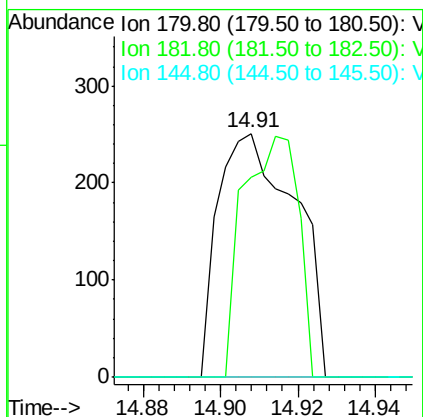
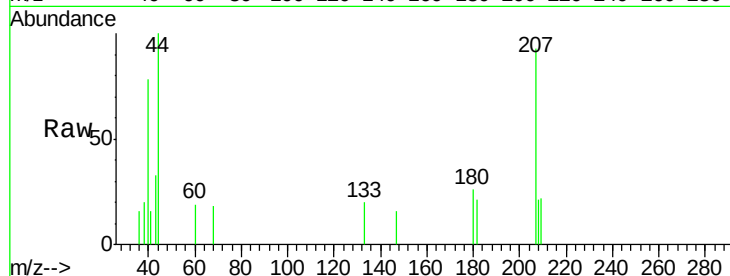




#93
 1,2,4-Trichlorobenzene
 Concen: 2.523 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

Instrument :
 MSVOA_N
 ClientSampled :
 TP-1S

Tgt Ion:180 Resp: 348
 Ion Ratio Lower Upper
 180 100
 182 70.1 47.5 142.6
 145 0.0 14.6 43.8#



#95
 Naphthalene
 Concen: 2.983 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN054954.D
 Acq: 4 Apr 2019 18:11

Tgt Ion:128 Resp: 1251
 Ion Ratio Lower Upper
 128 100
 127 10.1 10.6 16.0#
 129 2.6 8.6 13.0#

